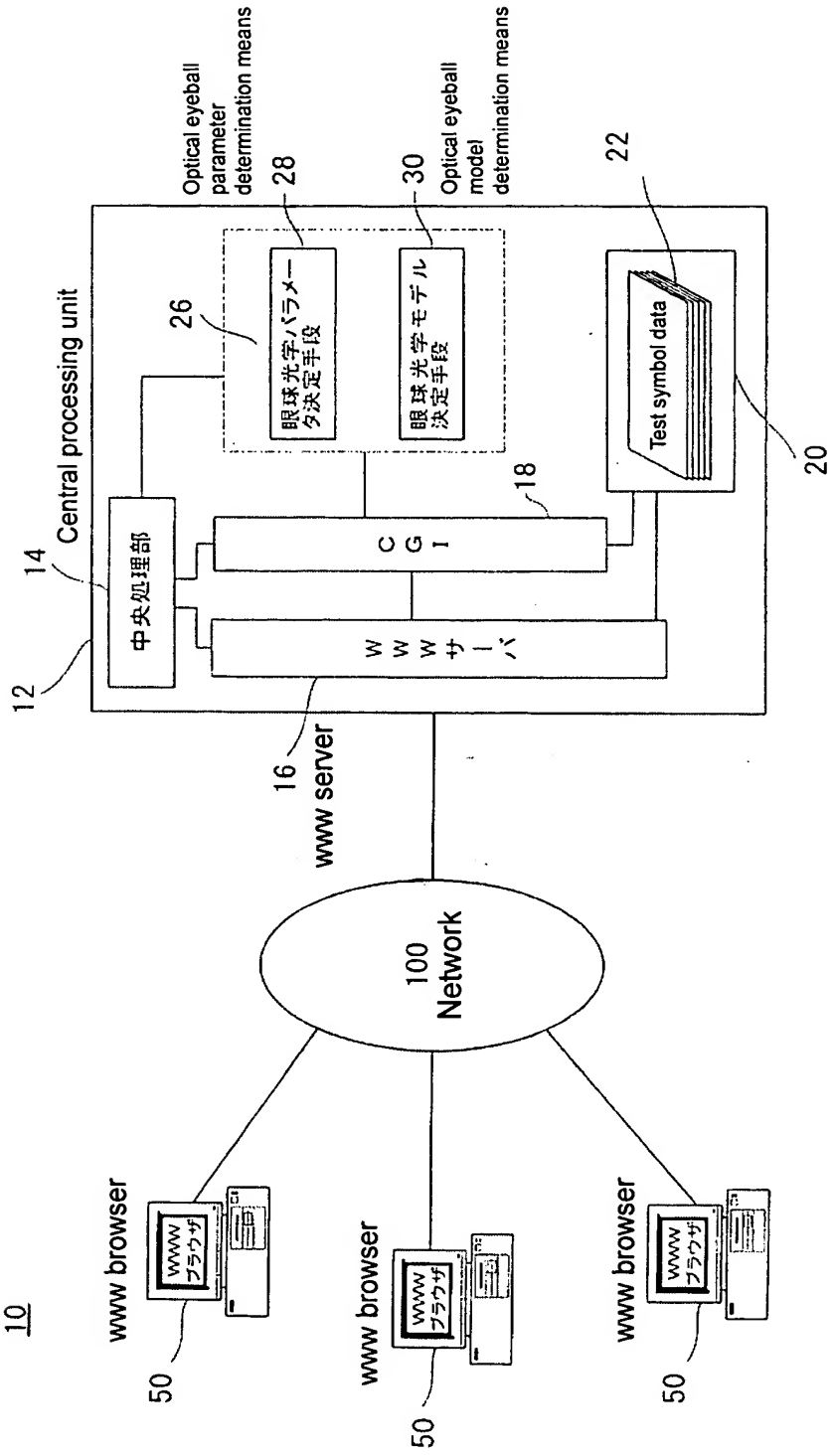
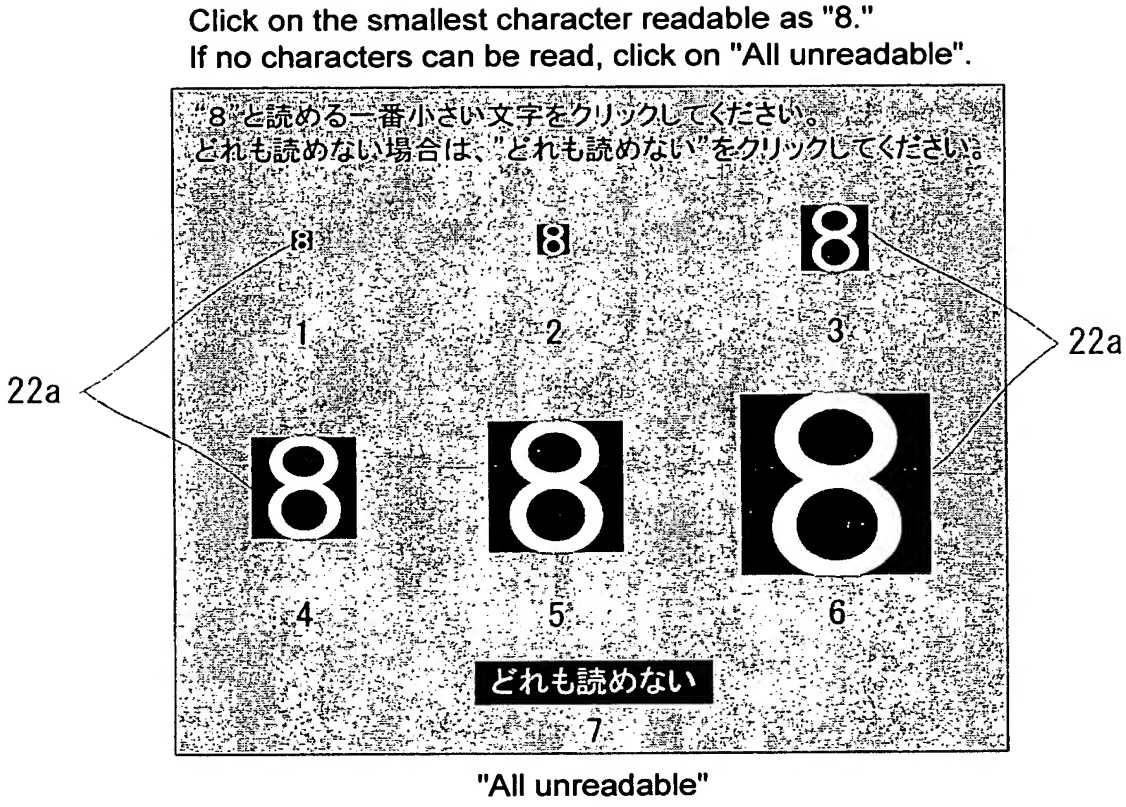
Fig. 1



BEST AVAILABLE COPY

Fig. 2



"All unreadable"

BEST AVAILABLE COPY

BEST AVAILABLE COPY

Fig. 3

Astigmatic axis measurement chart 1

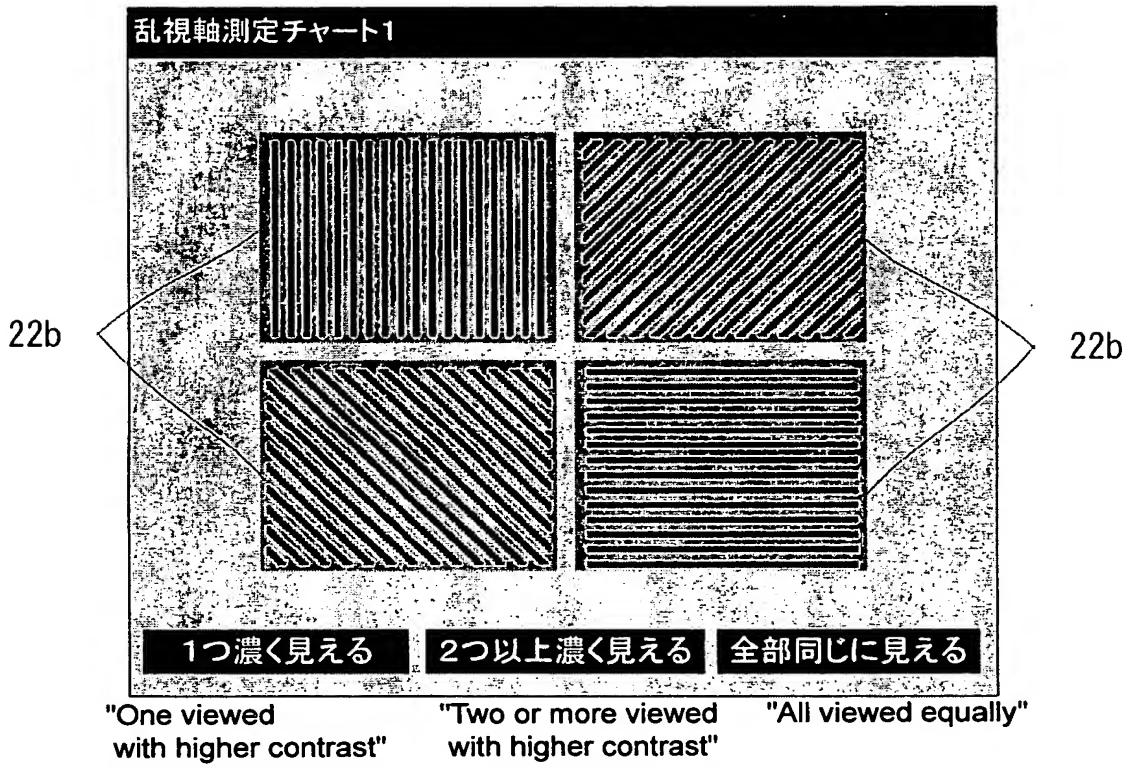
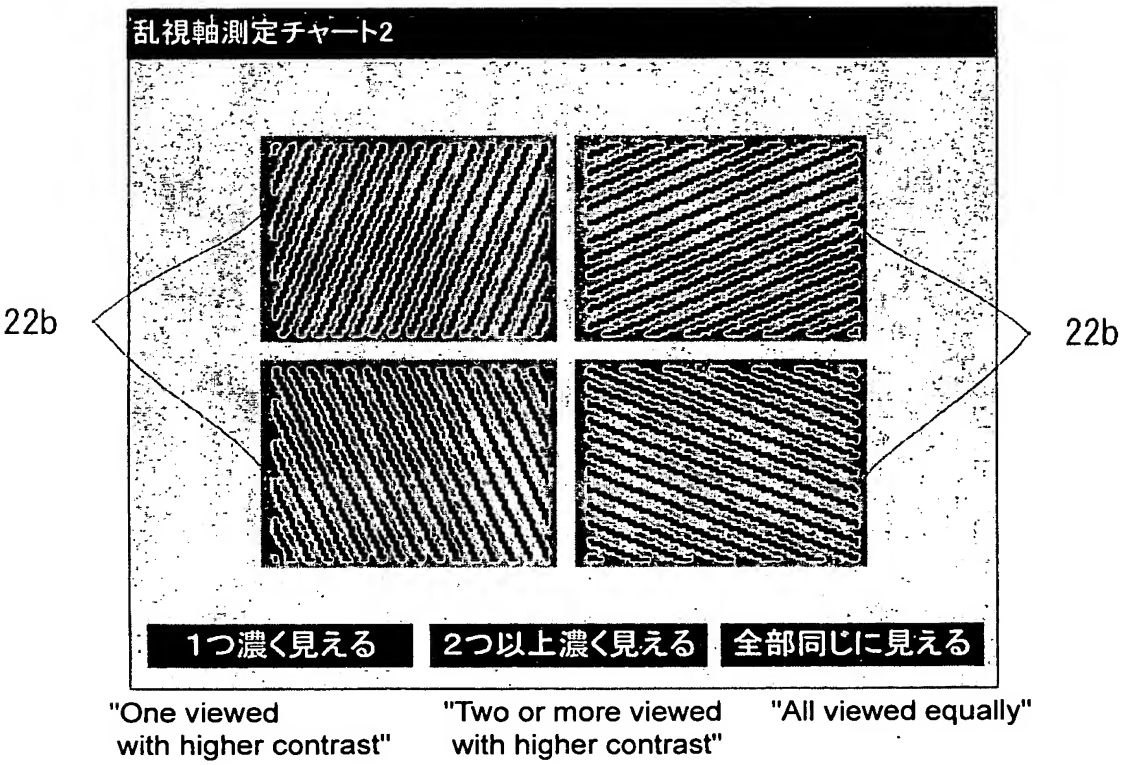


Fig. 4

Astigmatic axis measurement chart 2



BEST AVAILABLE COPY

Fig. 5

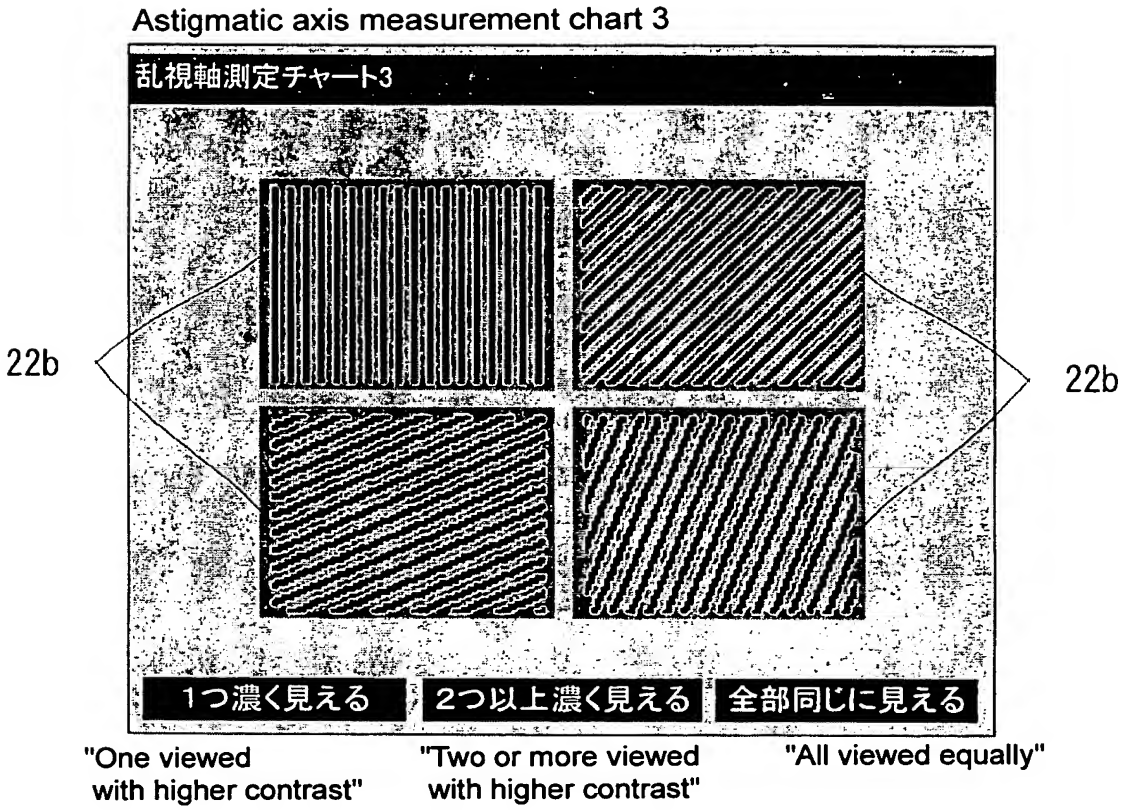


Fig. 6

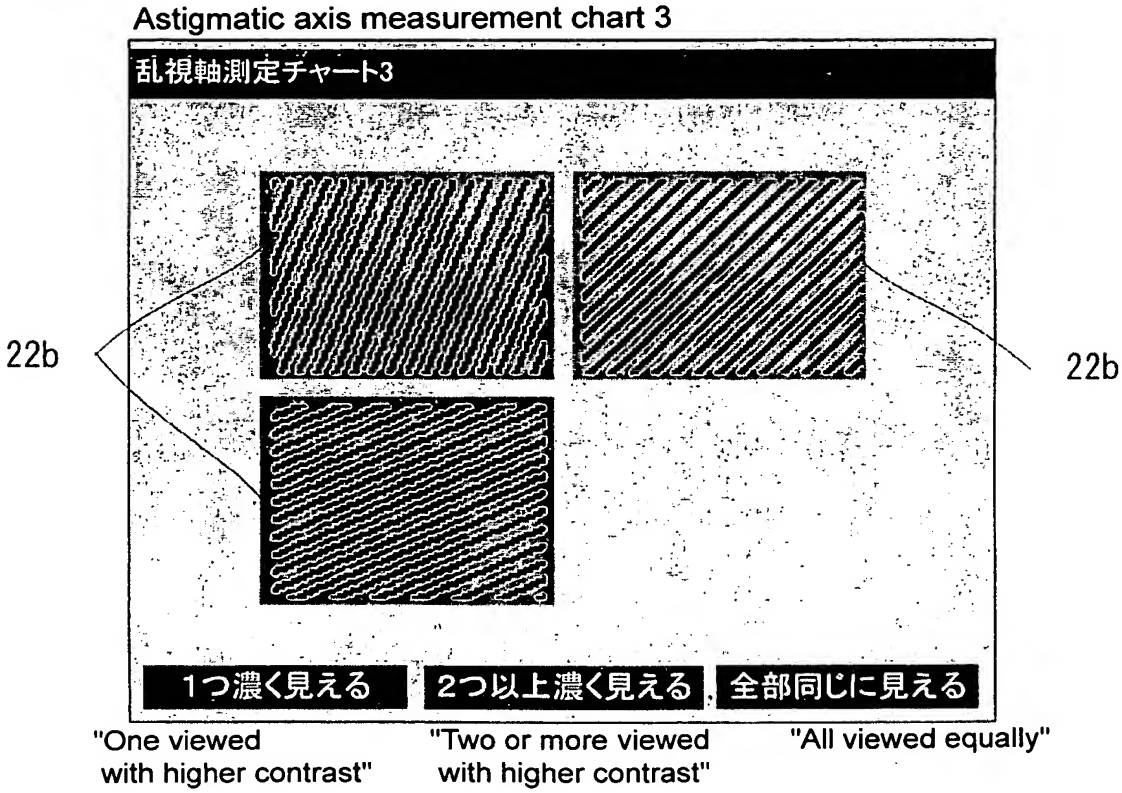


Fig. 7

BEST AVAILABLE COPY

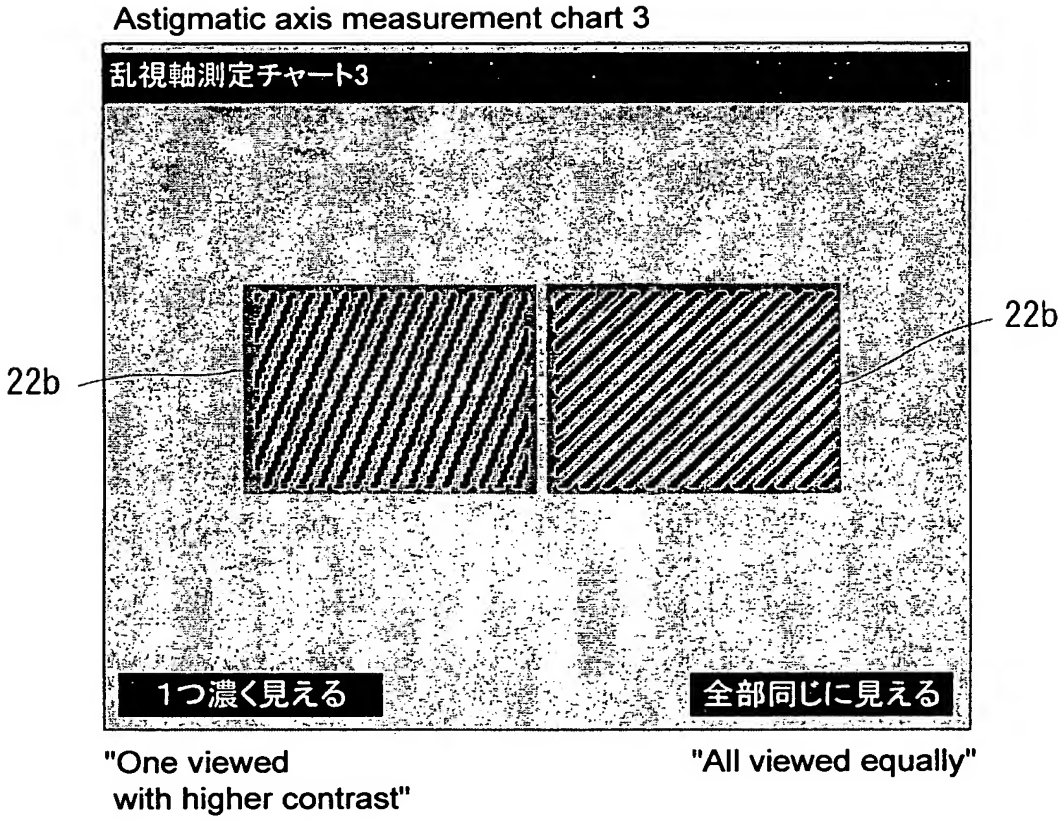
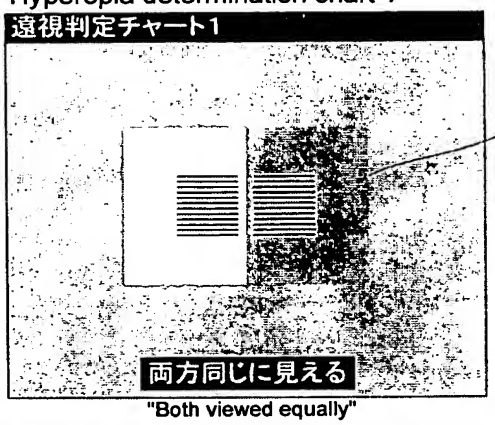


Fig. 8

(a)

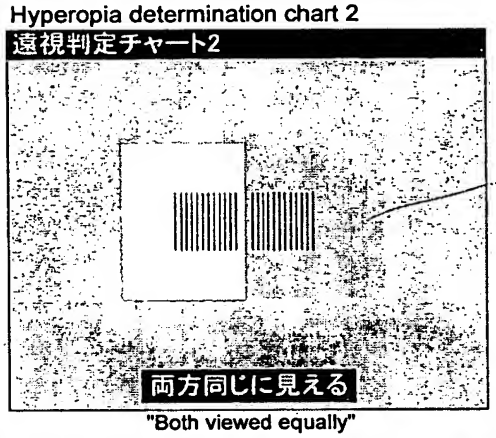
Hyperopia determination chart 1



"Both viewed equally"

(b)

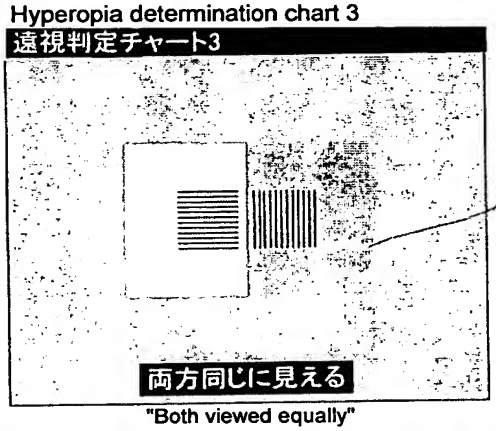
Hyperopia determination chart 2



"Both viewed equally"

(c)

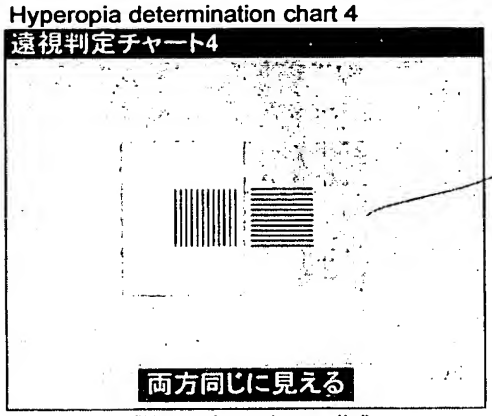
Hyperopia determination chart 3



"Both viewed equally"

(d)

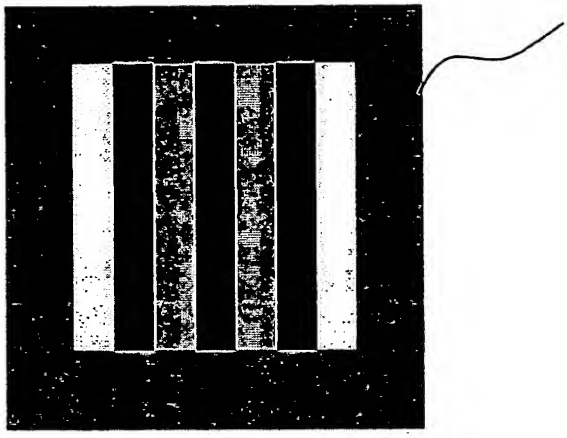
Hyperopia determination chart 4



"Both viewed equally"

BEST AVAILABLE COPY

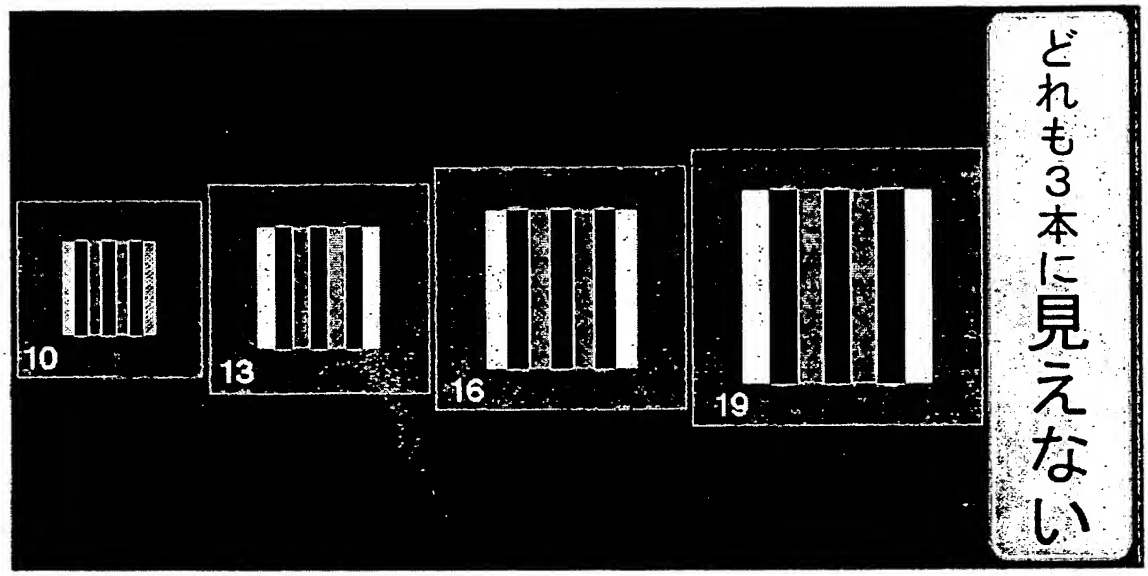
Fig. 9



BEST AVAILABLE COPY

BEST AVAILABLE COPY

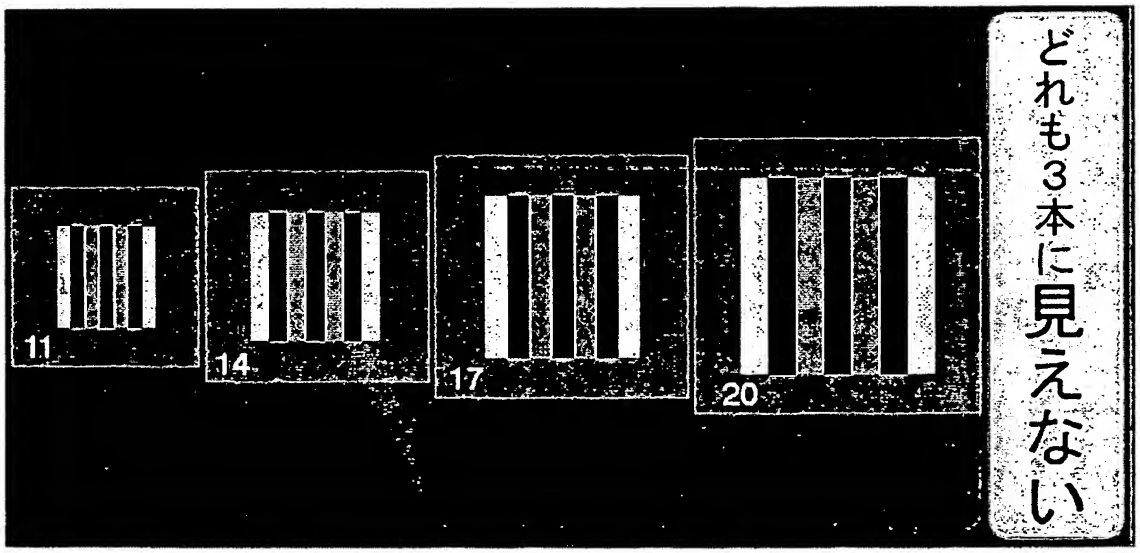
Fig. 10



"None viewed with 3 lines"

BEST AVAILABLE COPY

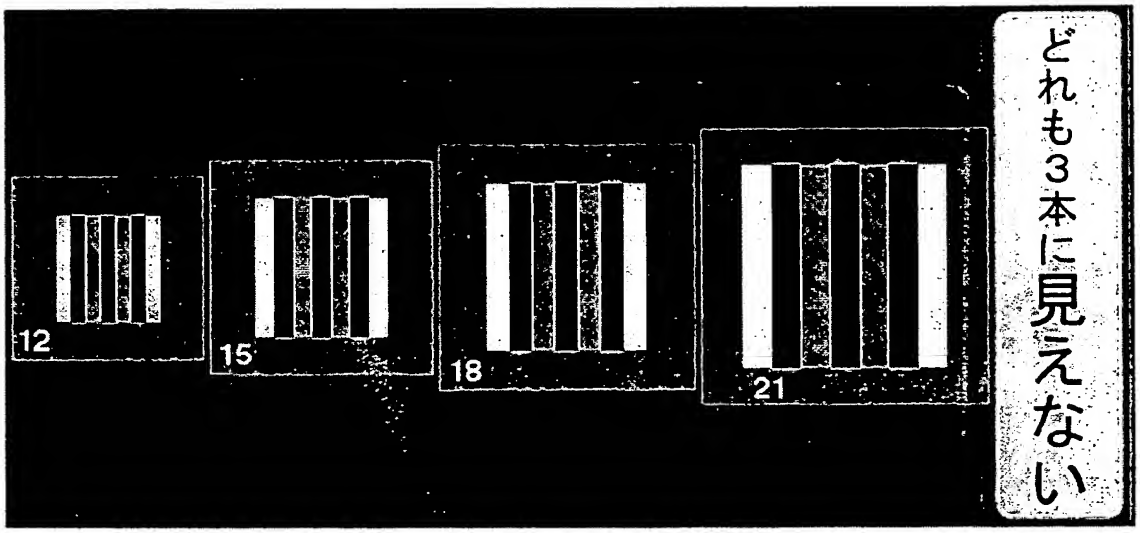
Fig. 11



"None viewed with 3 lines"

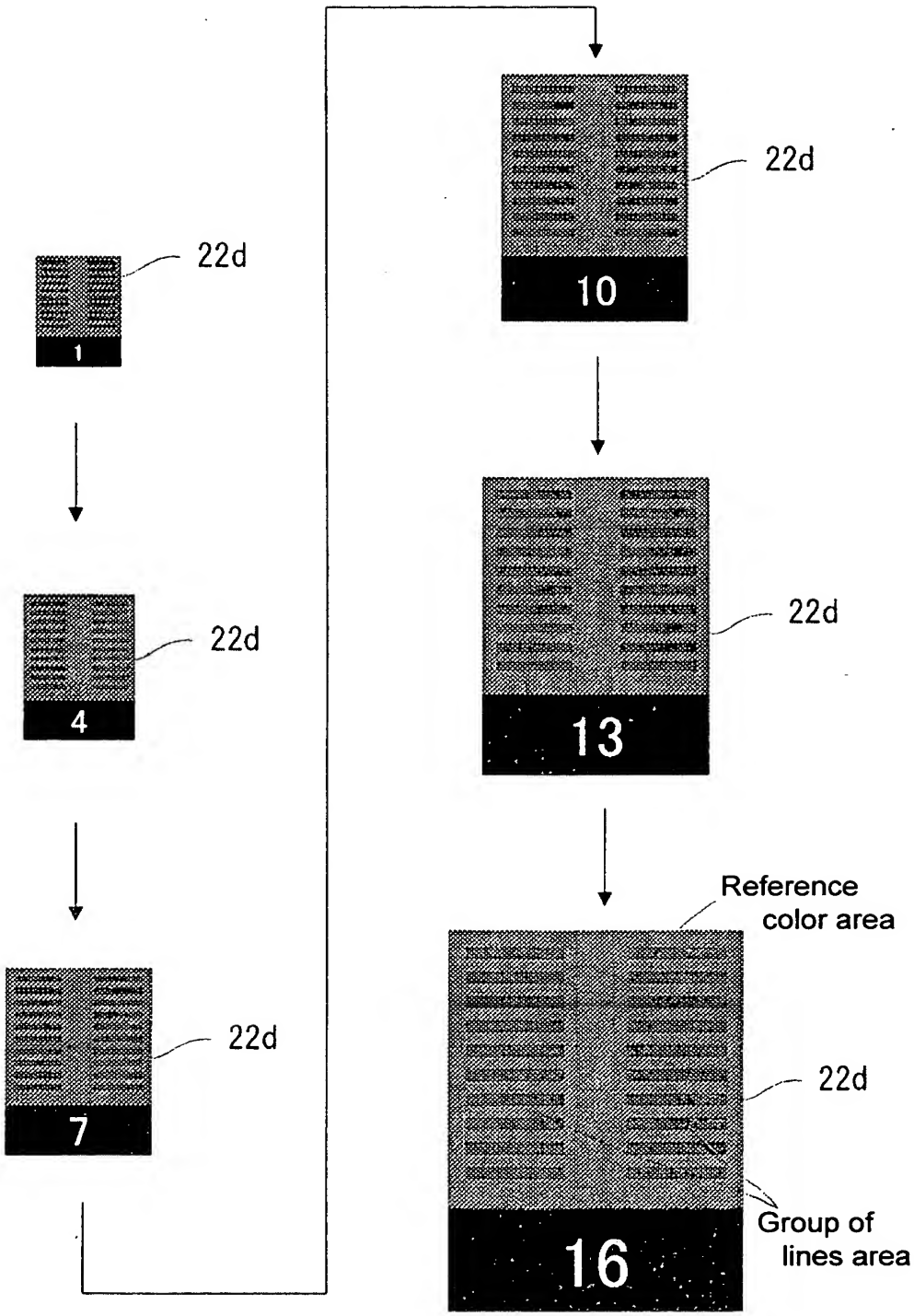
BEST AVAILABLE COPY

Fig. 12



"None viewed with 3 lines"

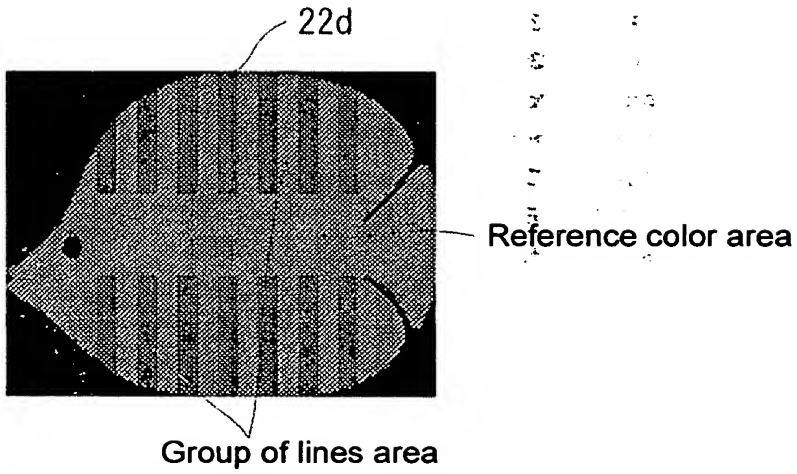
Fig. 13



BEST AVAILABLE COPY

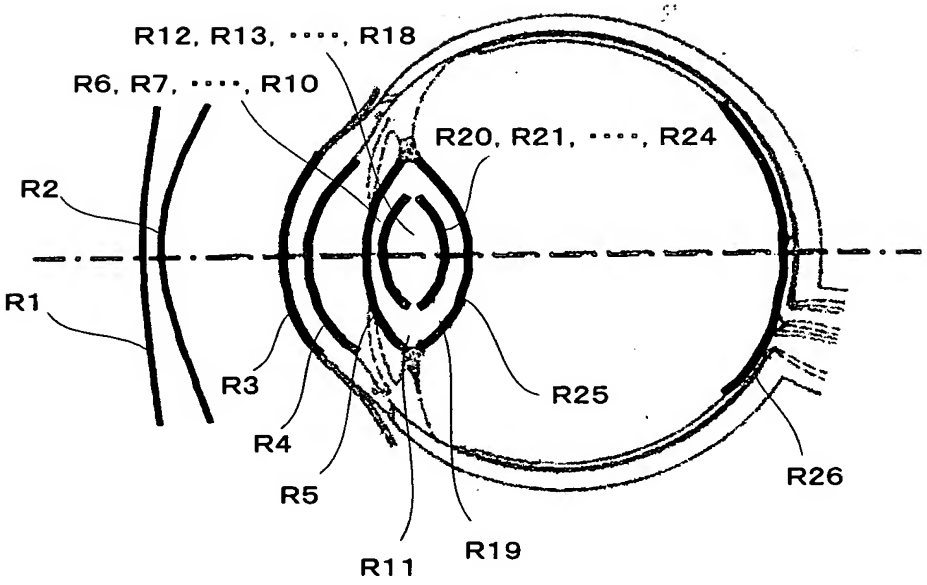
BEST AVAILABLE COPY

Fig. 14



BEST AVAILABLE COPY

Fig. 15



BEST AVAILABLE COPY

Fig. 16

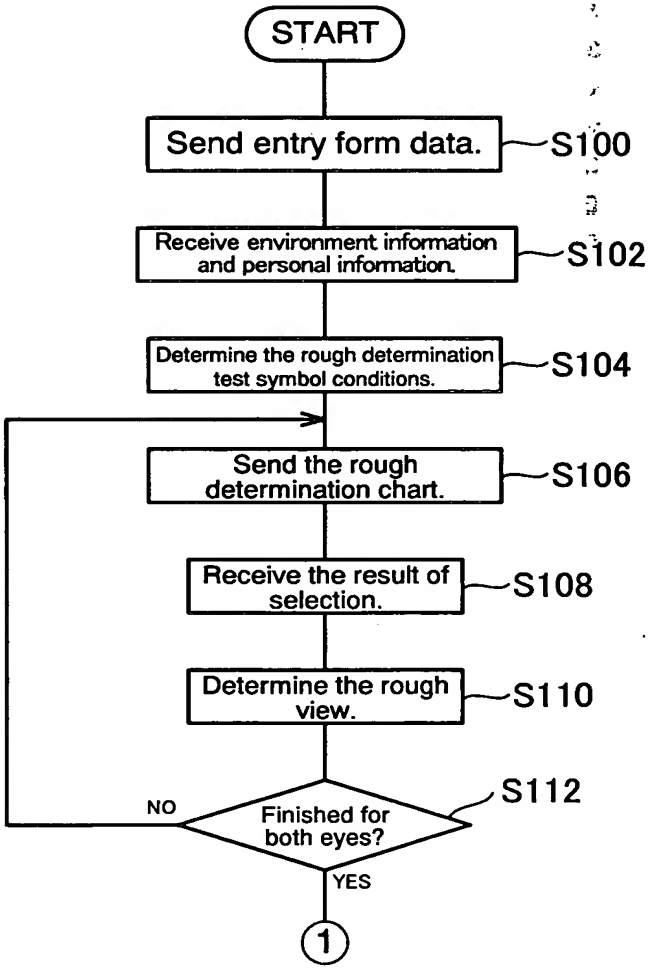


Fig.17

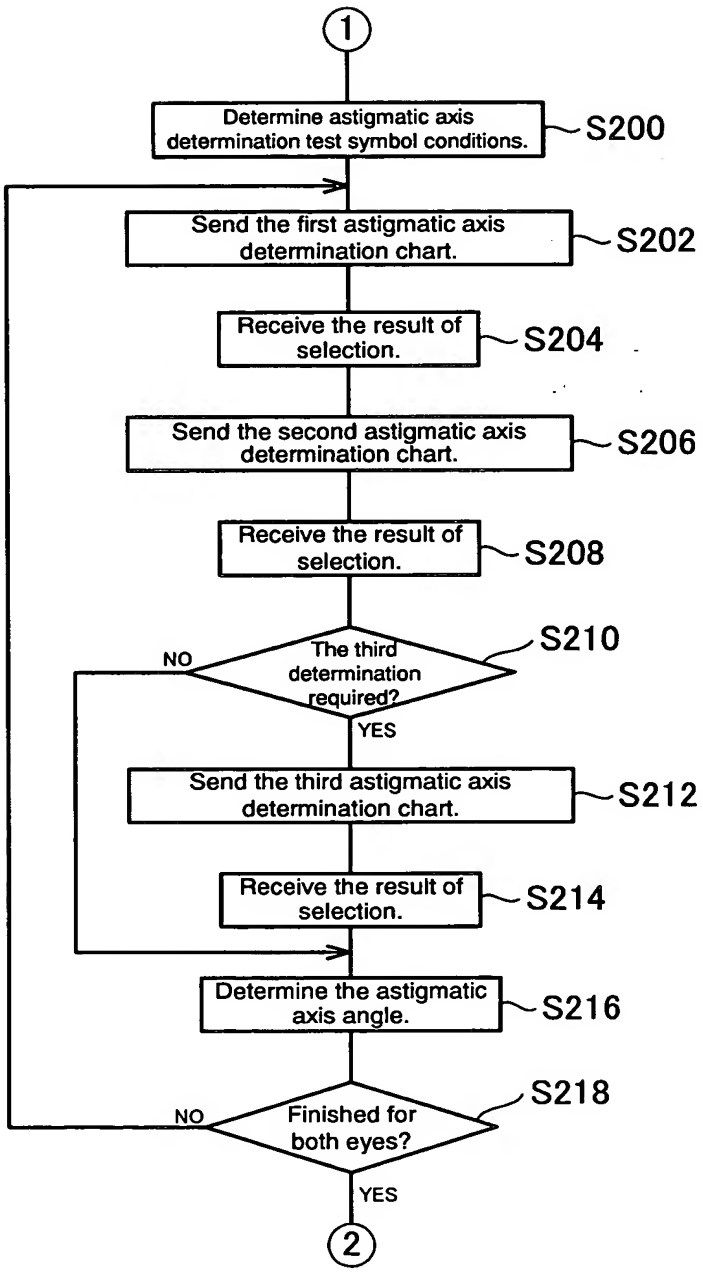

1
Determine astigmatic axis determination test symbol conditions.
S200
Send the first astigmatic axis determination chart.
S202
Receive the result of selection.
S204
Send the second astigmatic axis determination chart.
S206
Receive the result of selection.
S208
The third determination required?
S210
NO
YES
Send the third astigmatic axis determination chart.
S212
Receive the result of selection.
S214
Determine the astigmatic axis angle.
S216
Finished for both eyes?
S218
NO
YES
2

Fig. 18

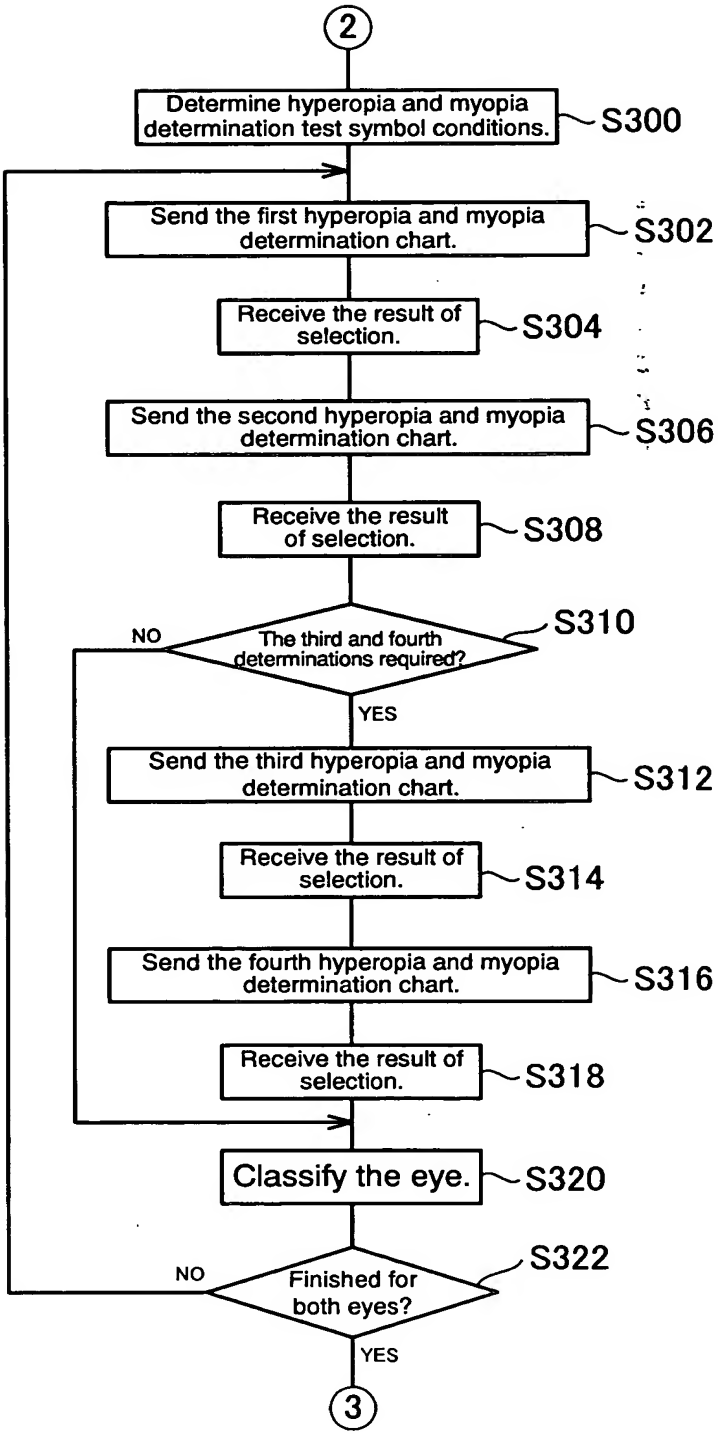

2
Determine hyperopia and myopia determination test symbol conditions.
S300
Send the first hyperopia and myopia determination chart.
S302
Receive the result of selection.
S304
Send the second hyperopia and myopia determination chart.
S306
Receive the result of selection.
S308
The third and fourth determinations required?
S310
NO
YES
Send the third hyperopia and myopia determination chart.
S312
Receive the result of selection.
S314
Send the fourth hyperopia and myopia determination chart.
S316
Receive the result of selection.
S318
Classify the eye.
S320
Finished for both eyes?
S322
NO
YES
3

Fig. 19

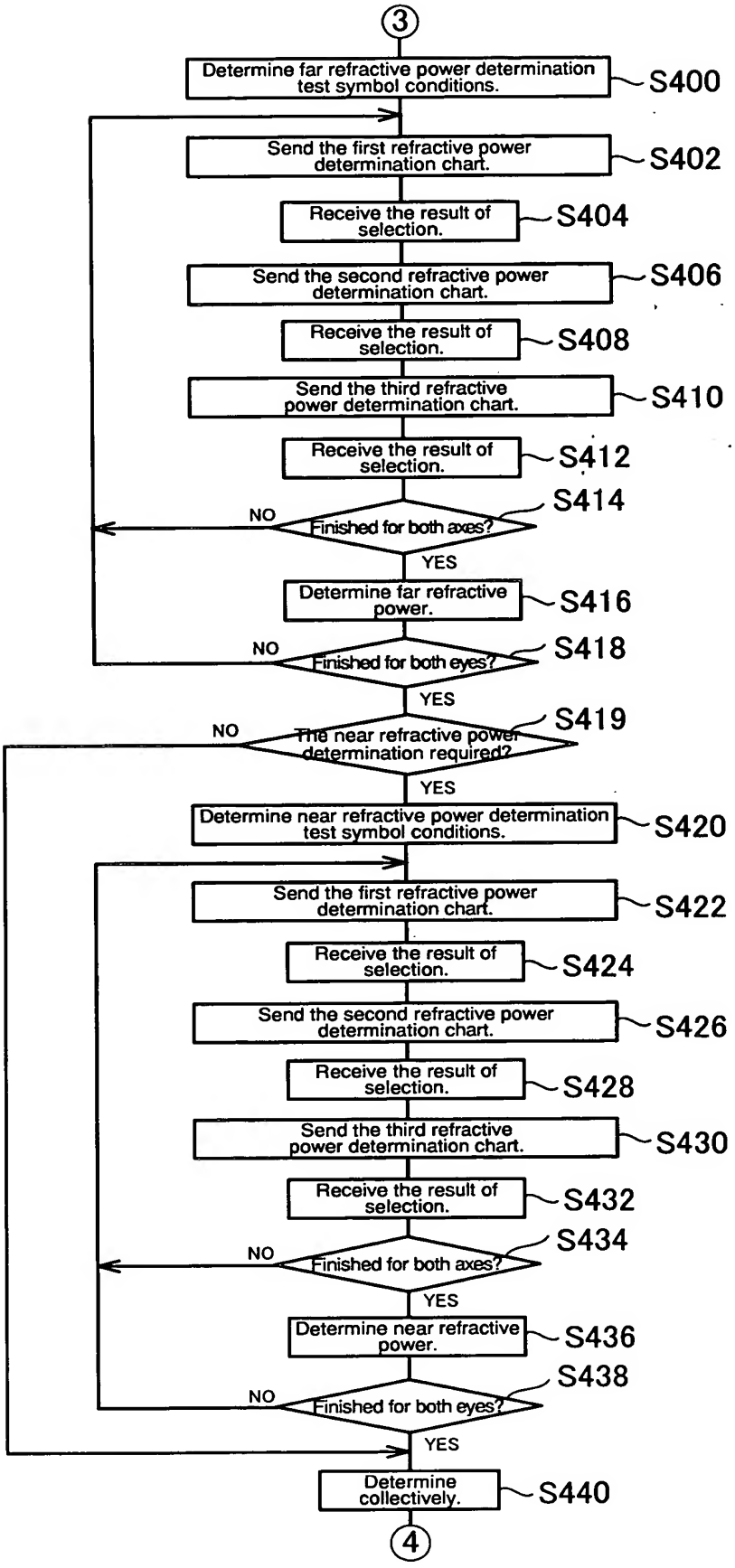

3
Determine far refractive power determination test symbol conditions.
S400
Send the first refractive power determination chart.
S402
Receive the result of selection.
S404
Send the second refractive power determination chart.
S406
Receive the result of selection.
S408
Send the third refractive power determination chart.
S410
Receive the result of selection.
S412
Finished for both axes?
S414
NO
YES
Determine far refractive power.
S416
Finished for both eyes?
S418
NO
YES
The near refractive power determination required?
S419
NO
YES
Determine near refractive power determination test symbol conditions.
S420
Send the first refractive power determination chart.
S422
Receive the result of selection.
S424
Send the second refractive power determination chart.
S426
Receive the result of selection.
S428
Send the third refractive power determination chart.
S430
Receive the result of selection.
S432
Finished for both axes?
S434
NO
YES
Determine near refractive power.
S436
Finished for both eyes?
S438
NO
YES
Determine collectively.
S440
4

Fig. 20

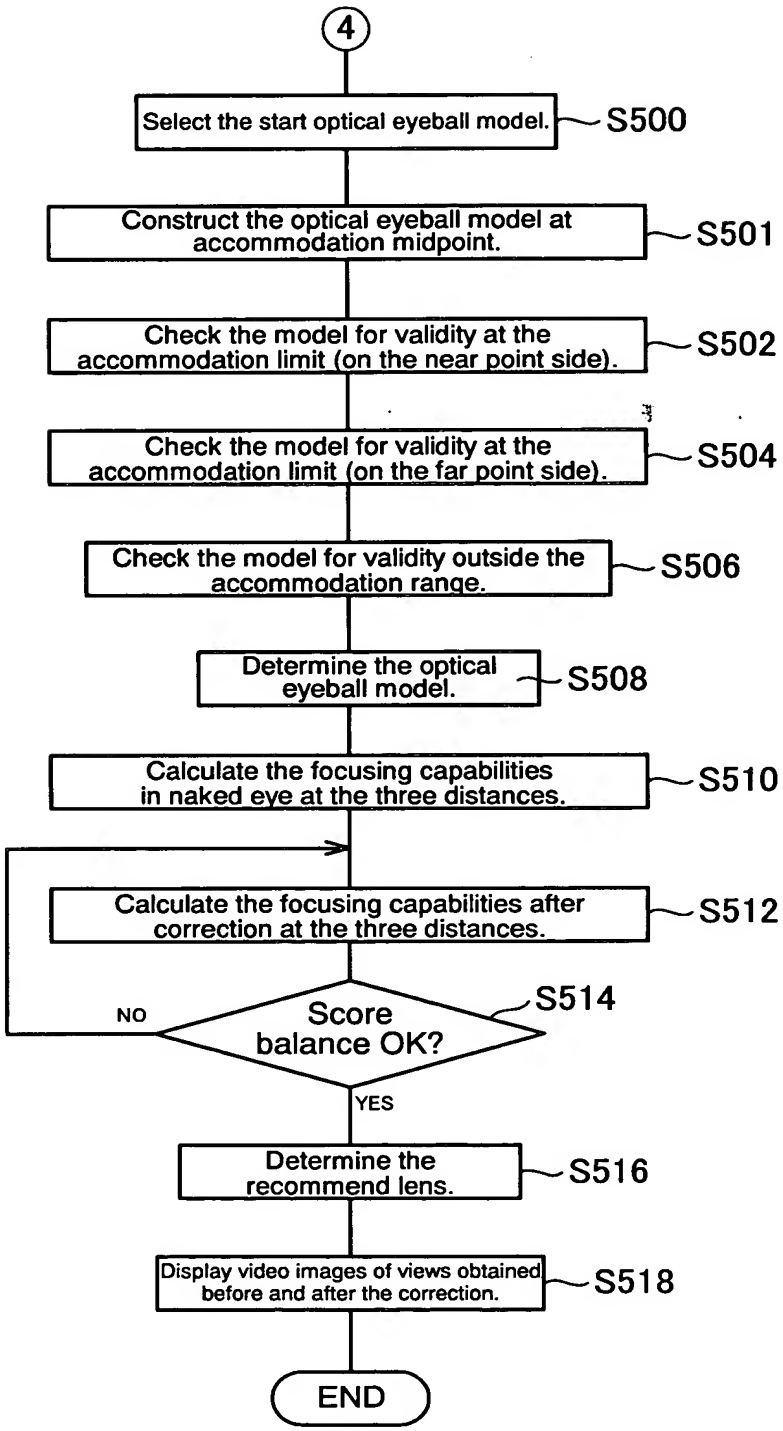

4
Select the start optical eyeball model.
S500
Construct the optical eyeball model at accommodation midpoint.
S501
Check the model for validity at the accommodation limit (on the near point side).
S502
Check the model for validity at the accommodation limit (on the far point side).
S504
Check the model for validity outside the accommodation range.
S506
Determine the optical eyeball model.
S508
Calculate the focusing capabilities in naked eye at the three distances.
S510
Calculate the focusing capabilities after correction at the three distances.
S512
Score balance OK?
S514
NO
YES
Determine the recommend lens.
S516
Display video images of views obtained before and after the correction.
S518
END

Fig. 21

PRIOR ART

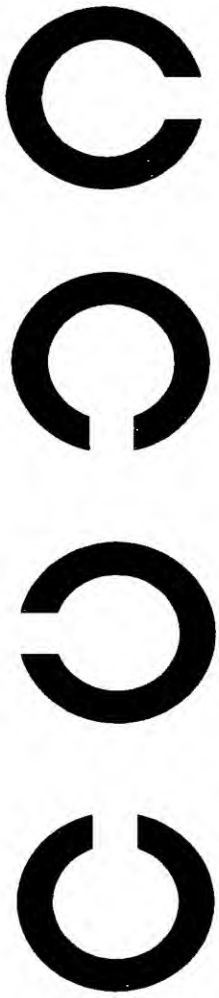
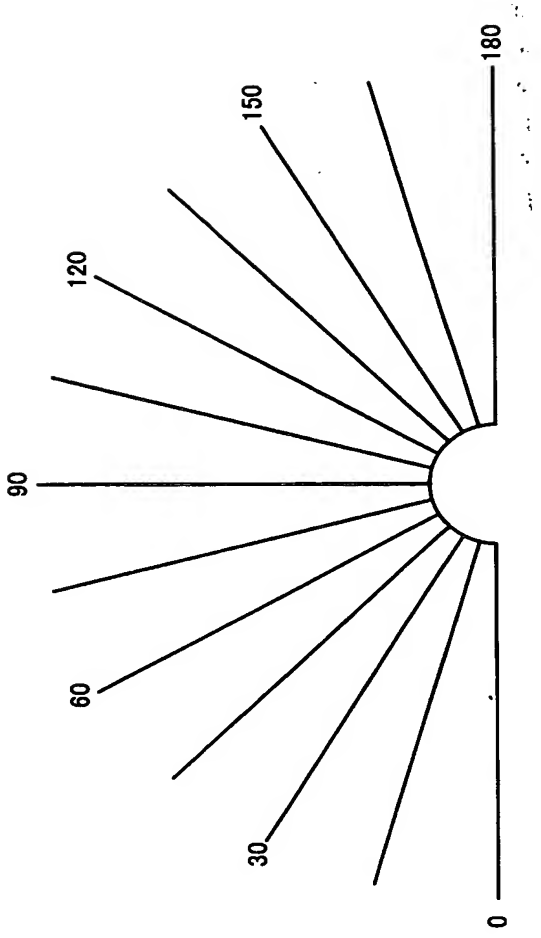


Fig. 22

PRIOR ART